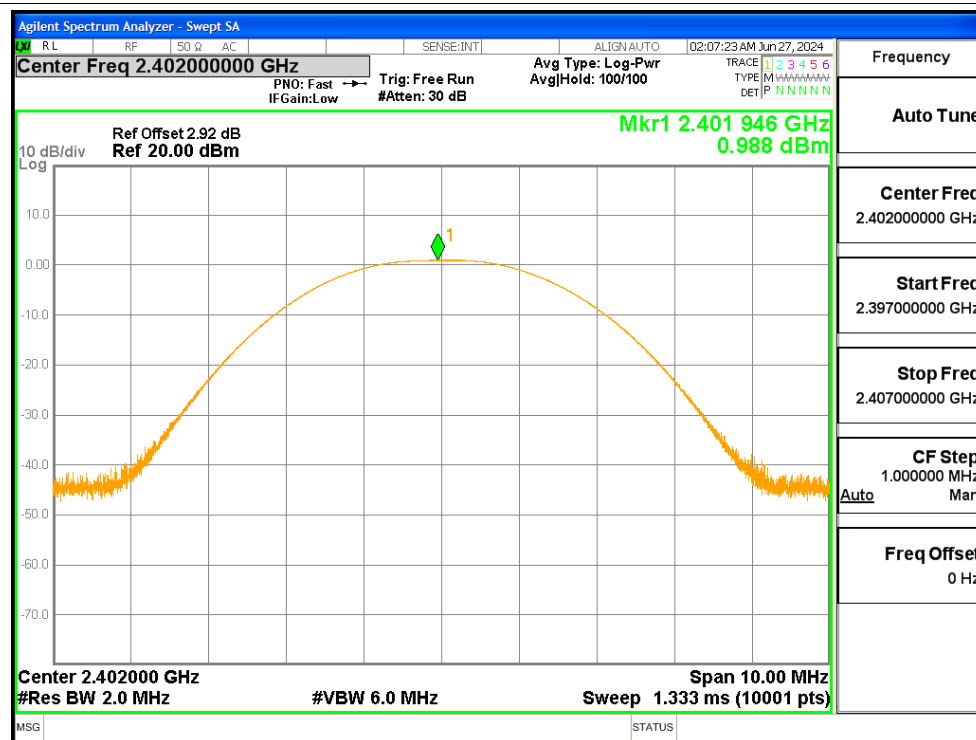


Maximum Conducted Output Power

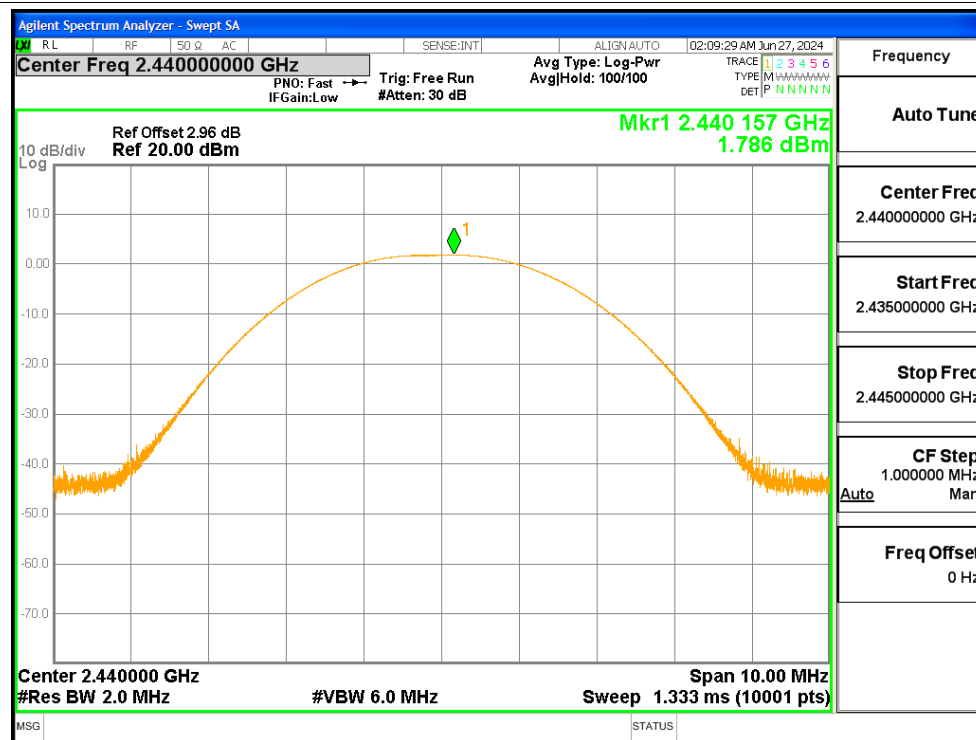
| Condition | Mode   | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.99                  | 0                | 0.99              | 30          | Pass    |
|           |        | 2440            |         | 1.79                  | 0                | 1.79              | 30          | Pass    |
|           |        | 2480            |         | 2.27                  | 0                | 2.27              | 30          | Pass    |
|           | BLE 2M | 2402            |         | 0.98                  | 0                | 0.98              | 30          | Pass    |
|           |        | 2440            |         | 1.75                  | 0                | 1.75              | 30          | Pass    |
|           |        | 2480            |         | 2.25                  | 0                | 2.25              | 30          | Pass    |

## Test Graphs

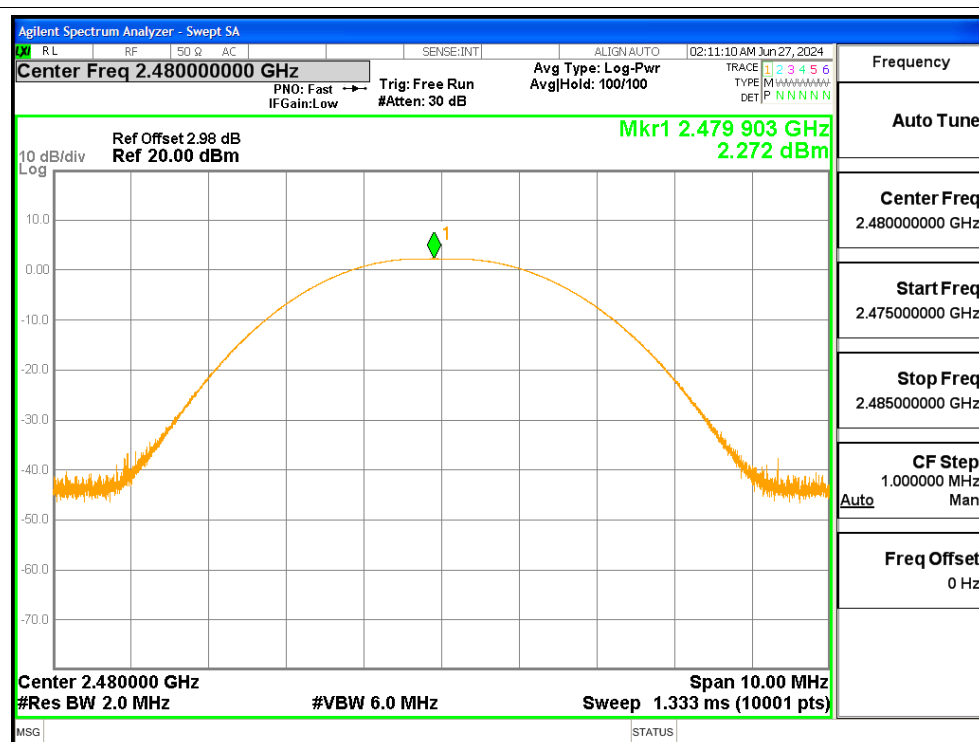
Power NVNT BLE 1M 2402MHz Ant1



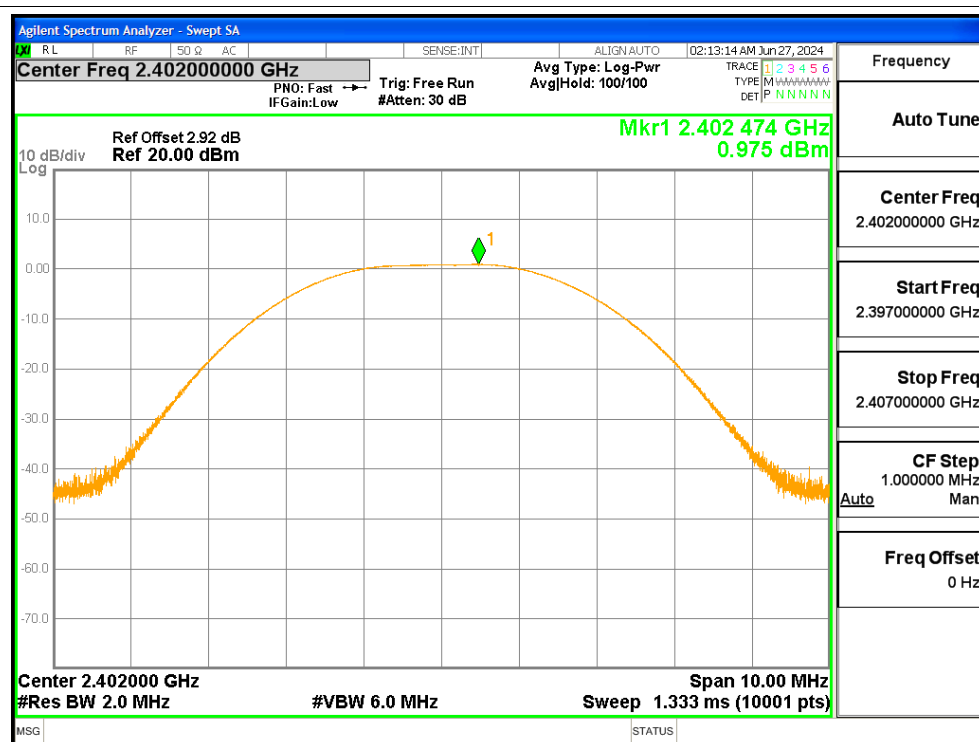
Power NVNT BLE 1M 2440MHz Ant1



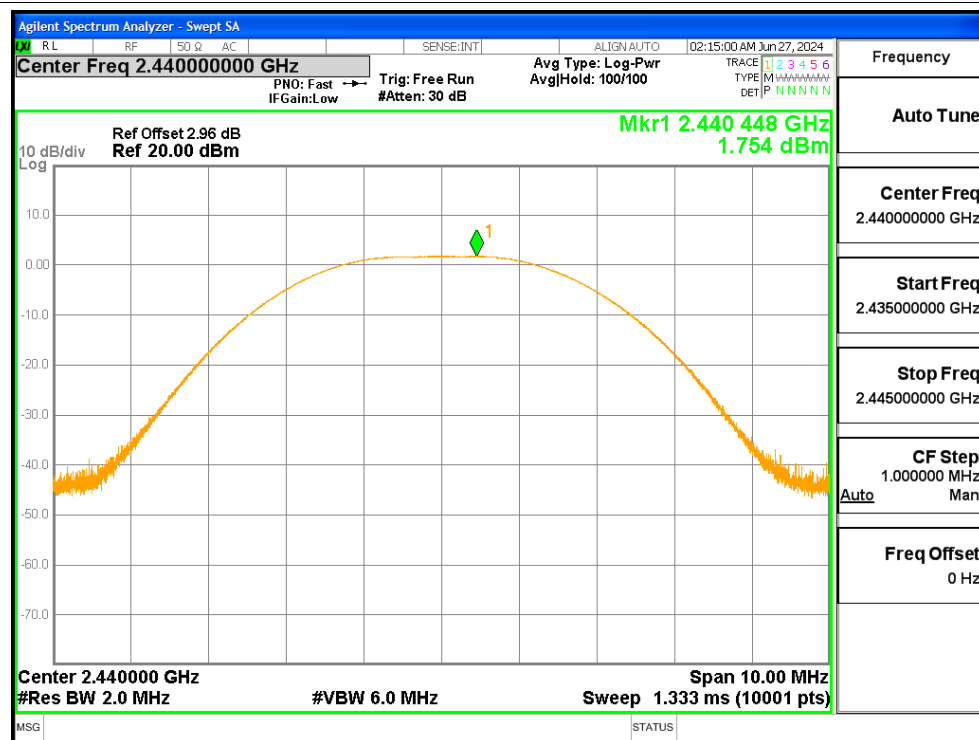
Power NVNT BLE 1M 2480MHz Ant1



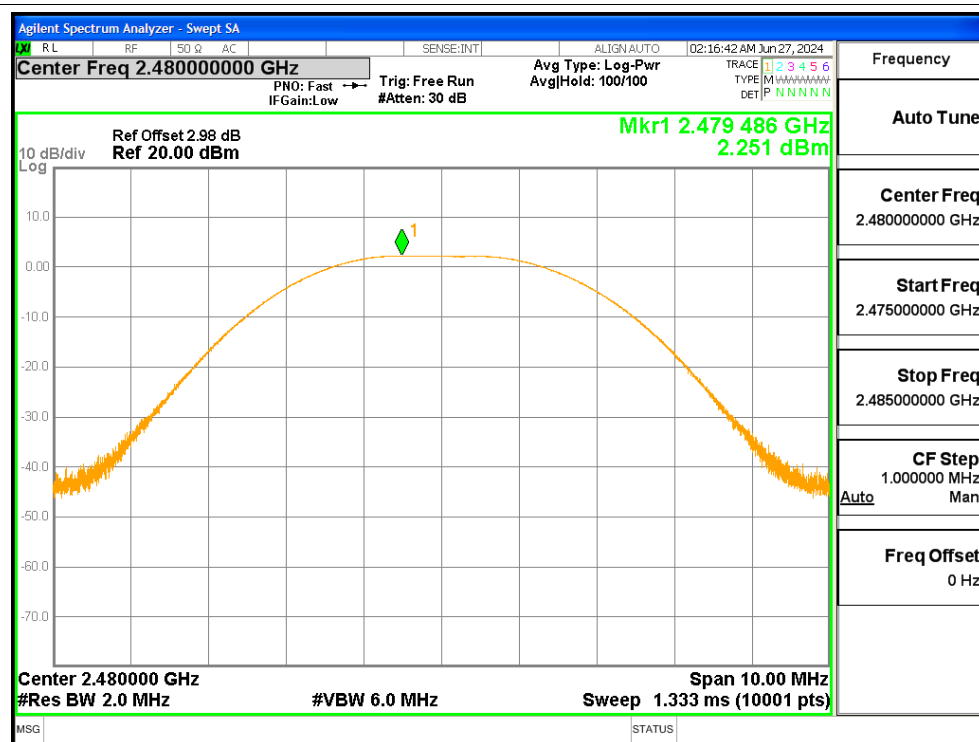
Power NVNT BLE 2M 2402MHz Ant1



Power NVNT BLE 2M 2440MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1



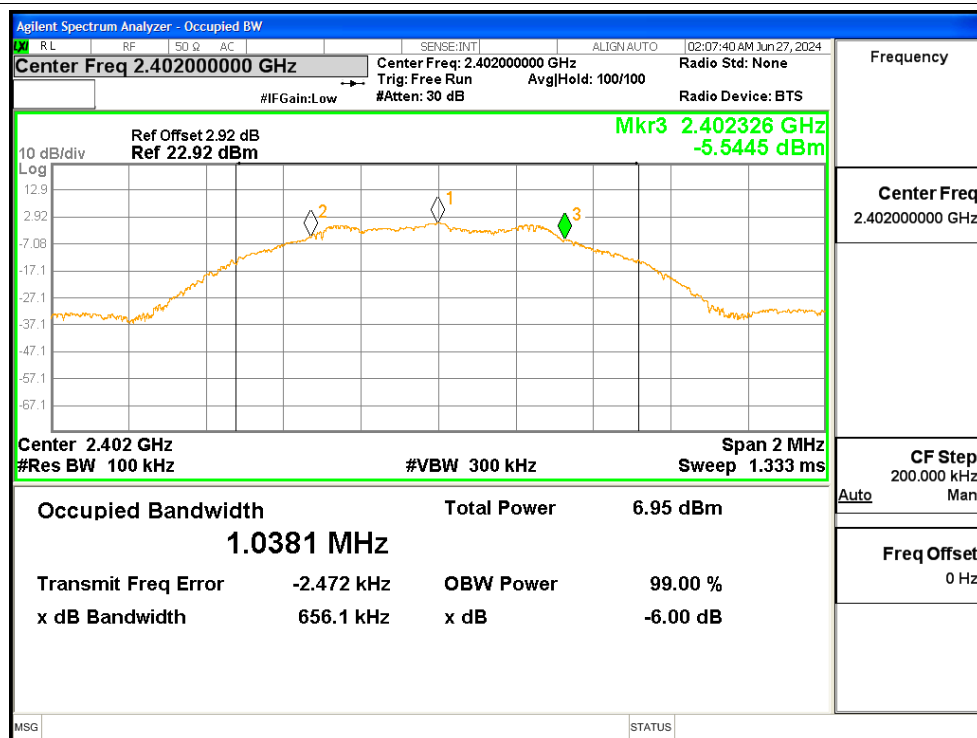
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## -6dB Bandwidth

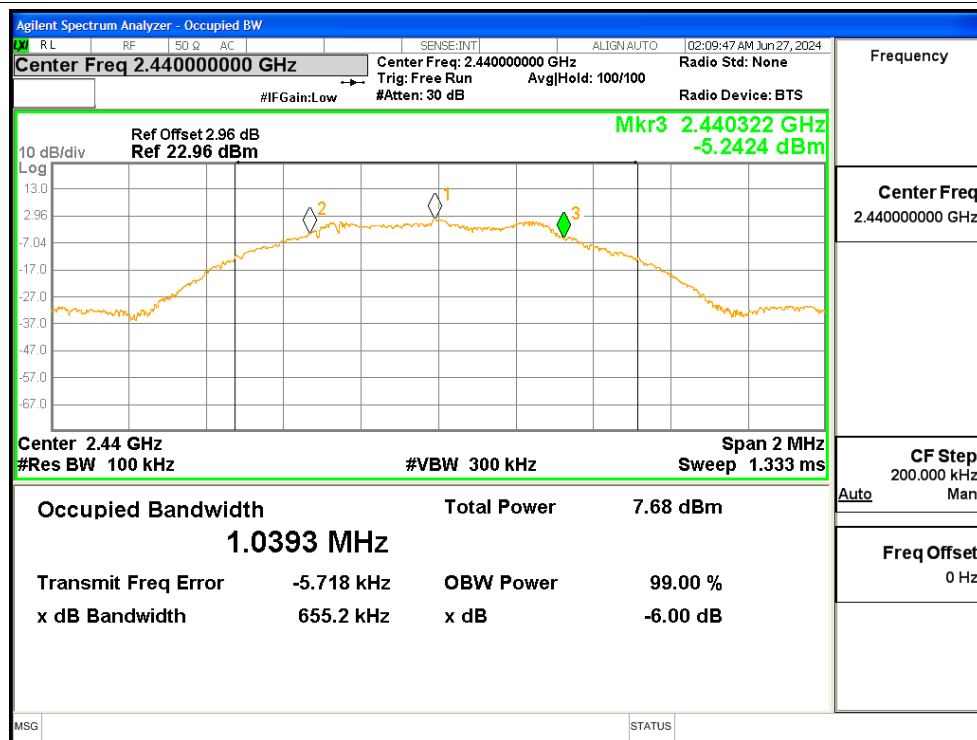
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.656                 | 0.5                         | Pass    |
|           |        | 2440            |         | 0.655                 | 0.5                         | Pass    |
|           |        | 2480            |         | 0.65                  | 0.5                         | Pass    |
|           | BLE 2M | 2402            |         | 1.103                 | 0.5                         | Pass    |
|           |        | 2440            |         | 1.128                 | 0.5                         | Pass    |
|           |        | 2480            |         | 1.125                 | 0.5                         | Pass    |

## Test Graphs

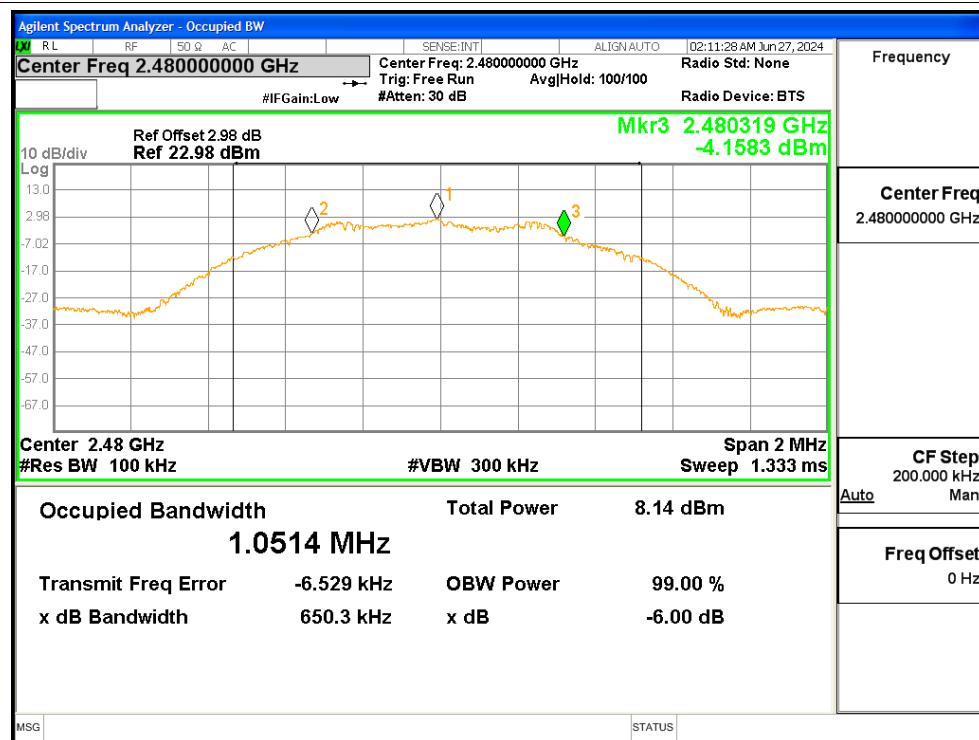
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



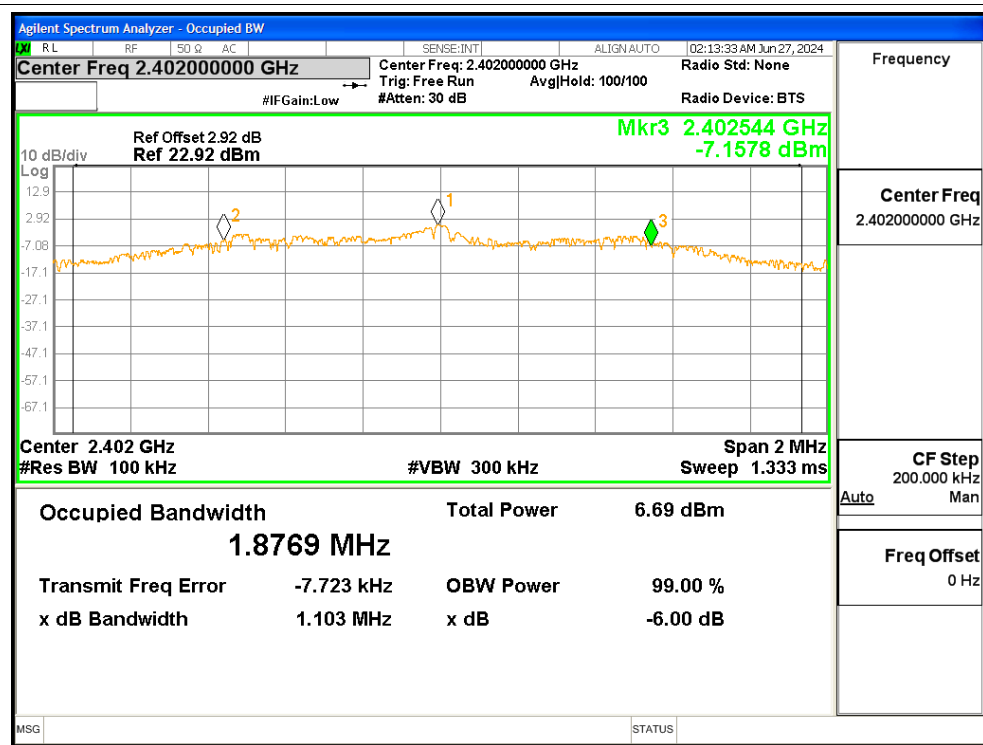
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



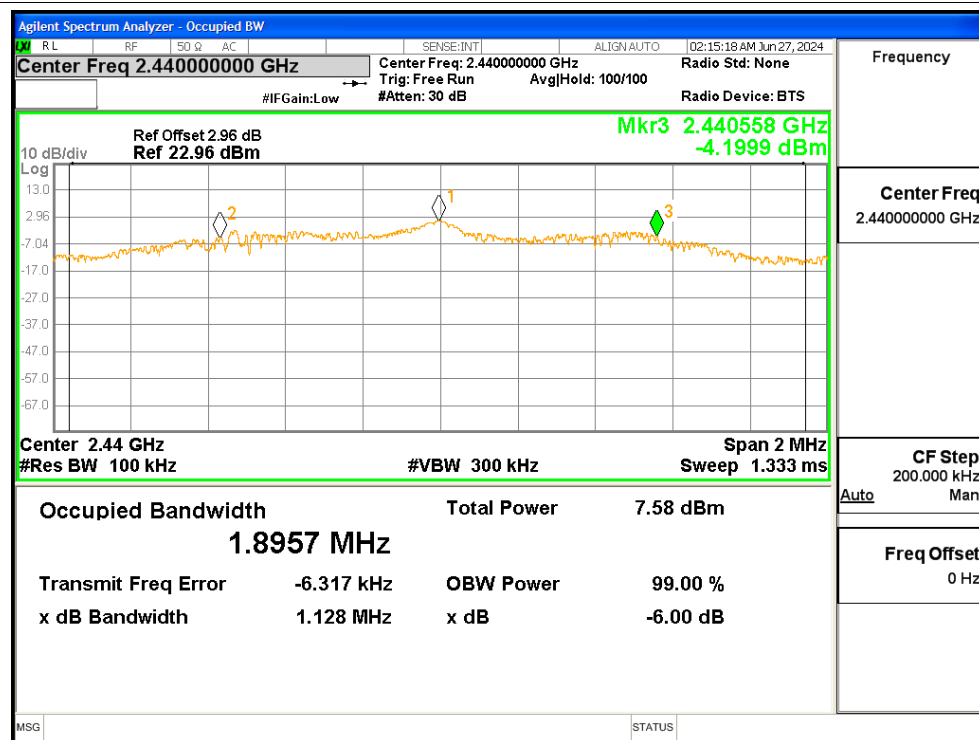
## -6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



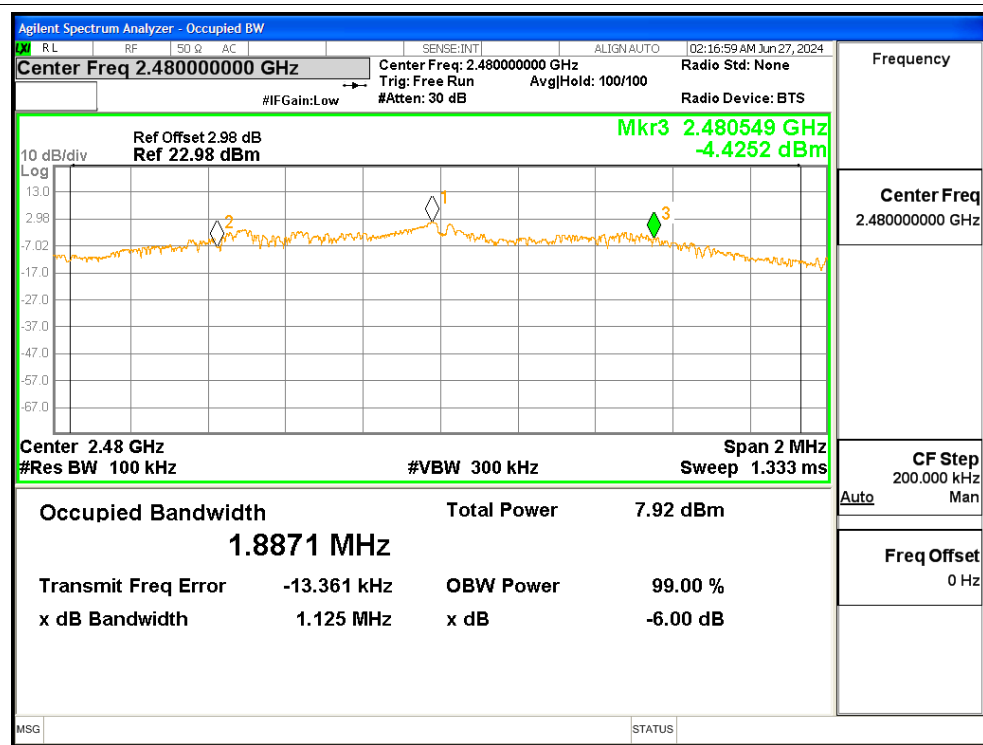
## -6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



## -6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



## -6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



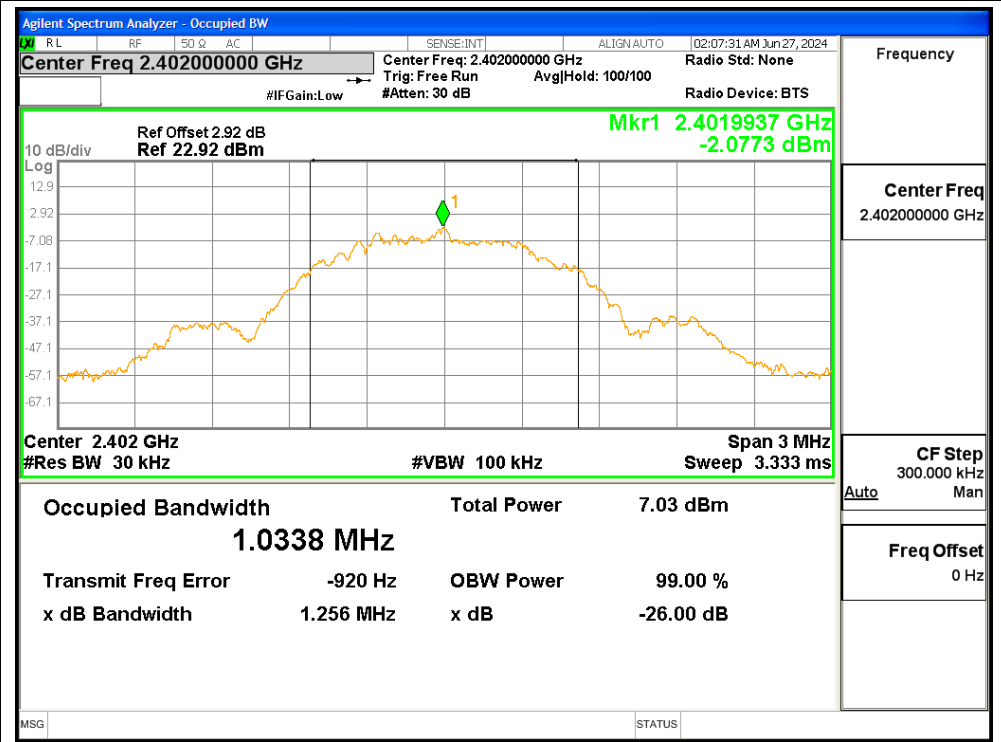
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## Occupied Channel Bandwidth

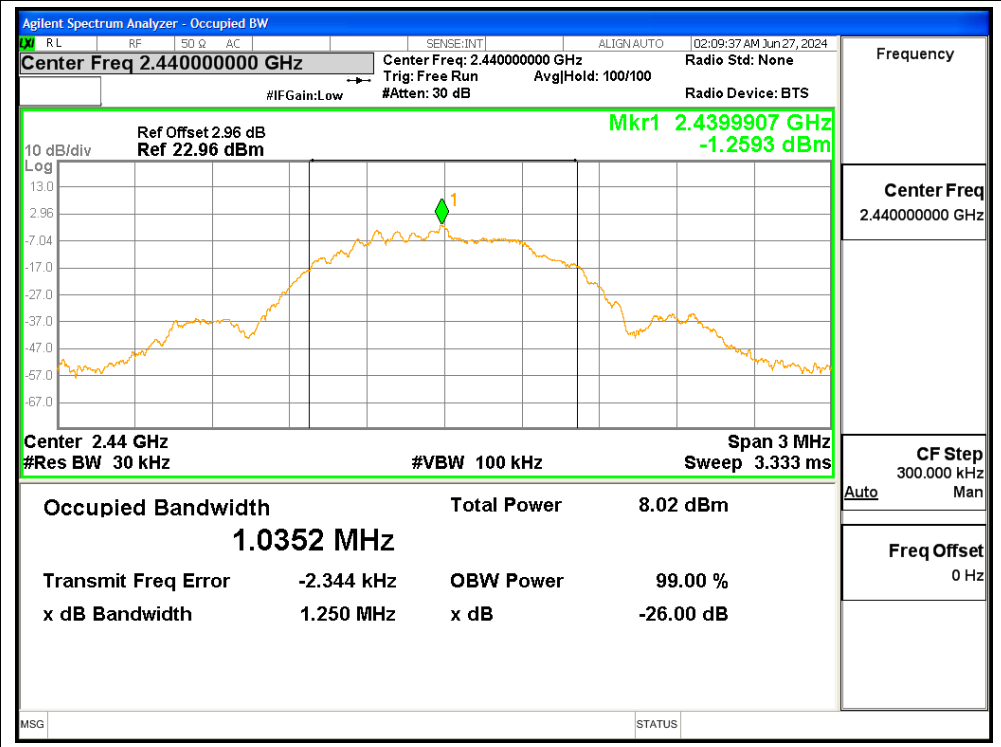
| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.034         |
|           |        | 2440            |         | 1.035         |
|           |        | 2480            |         | 1.042         |
|           | BLE 2M | 2402            |         | 2.036         |
|           |        | 2440            |         | 2.038         |
|           |        | 2480            |         | 2.045         |

Test Graphs

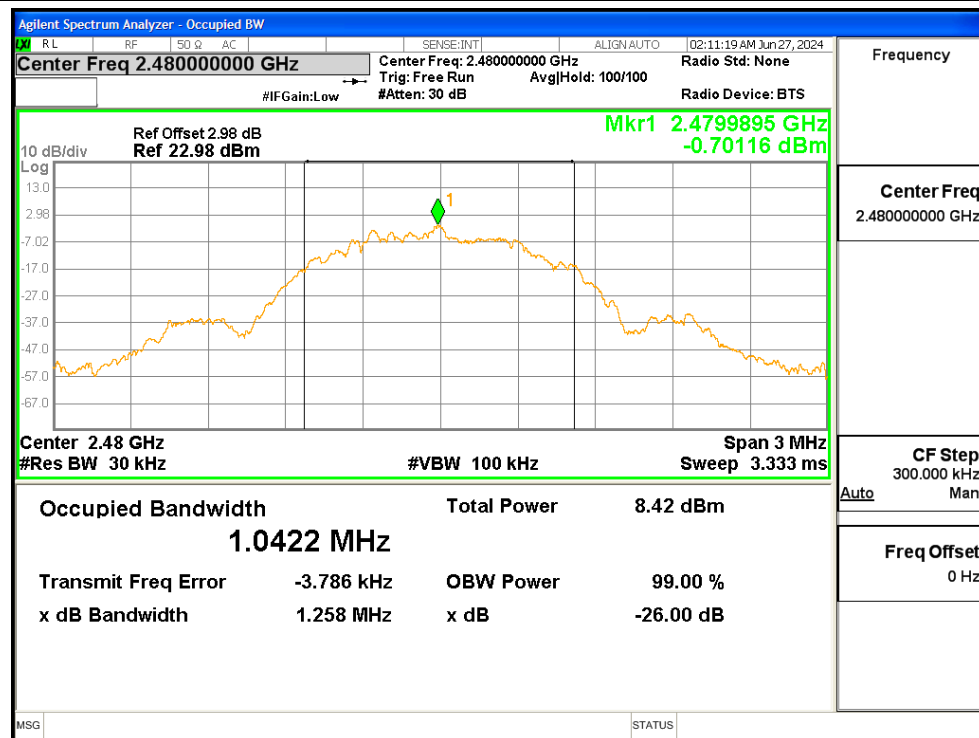
OBW NVNT BLE 1M 2402MHz Ant1



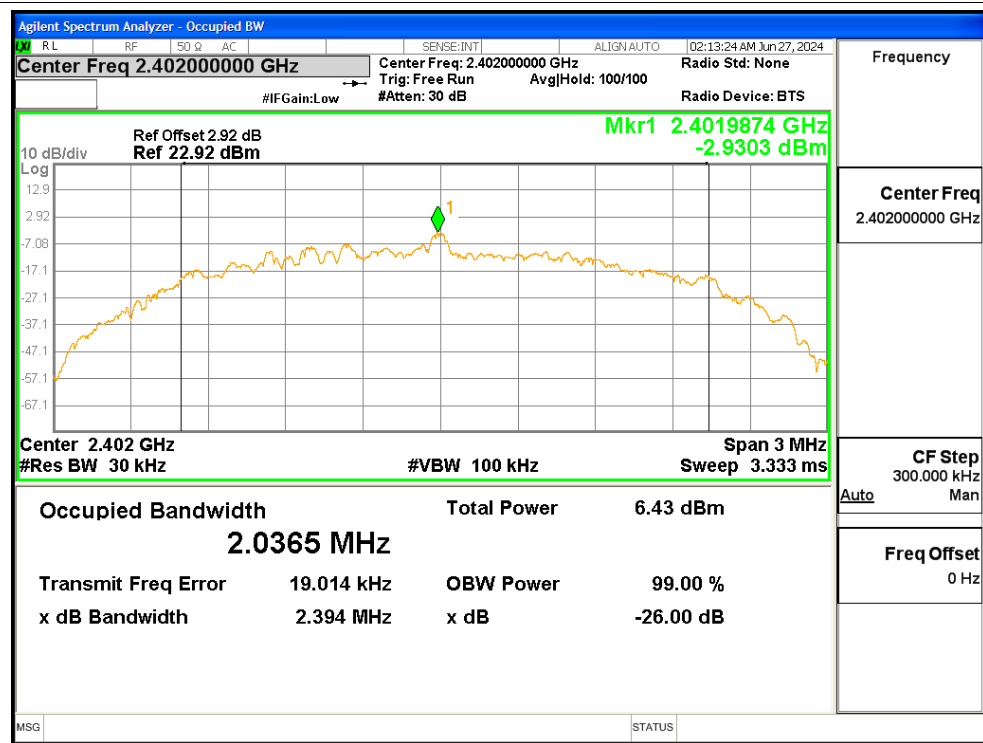
OBW NVNT BLE 1M 2440MHz Ant1



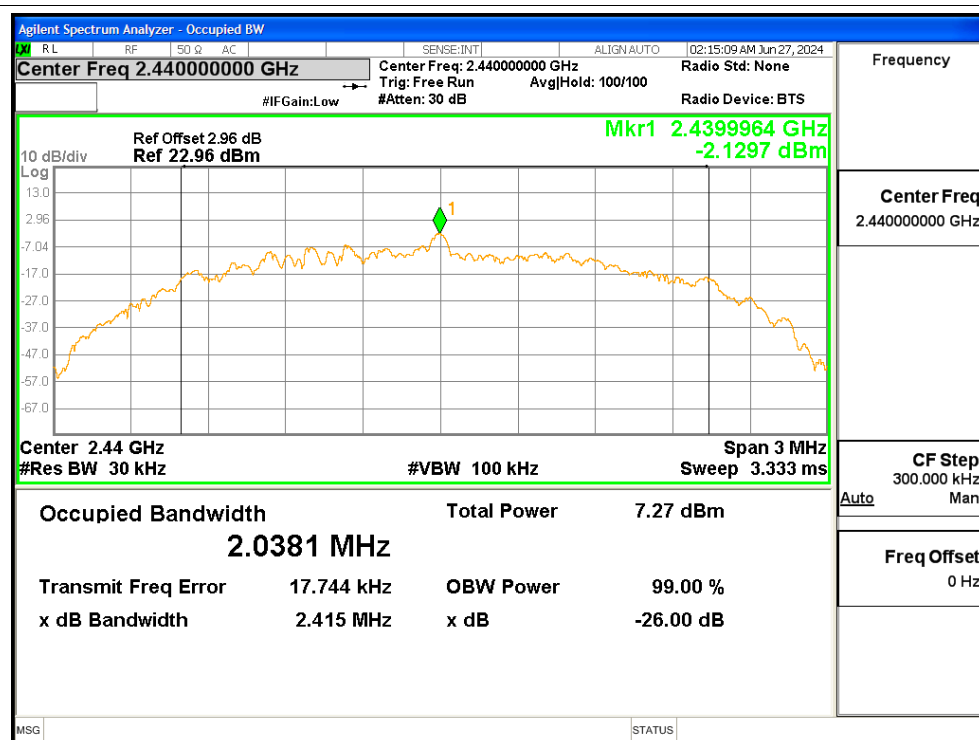
## OBW NVNT BLE 1M 2480MHz Ant1



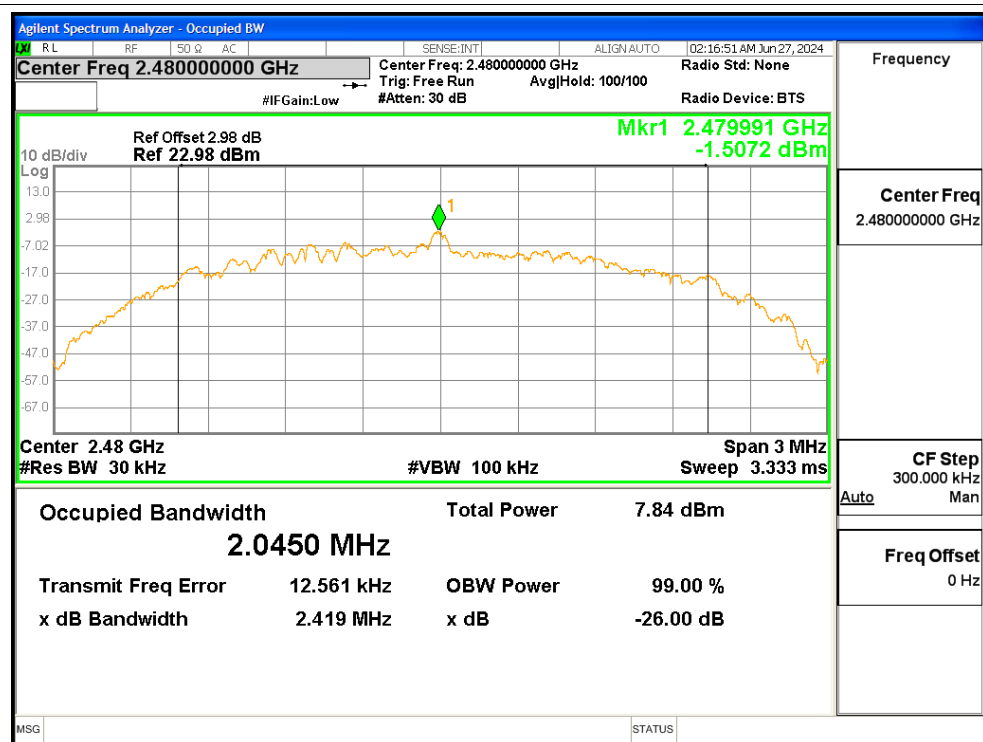
## OBW NVNT BLE 2M 2402MHz Ant1



## OBW NVNT BLE 2M 2440MHz Ant1



## OBW NVNT BLE 2M 2480MHz Ant1



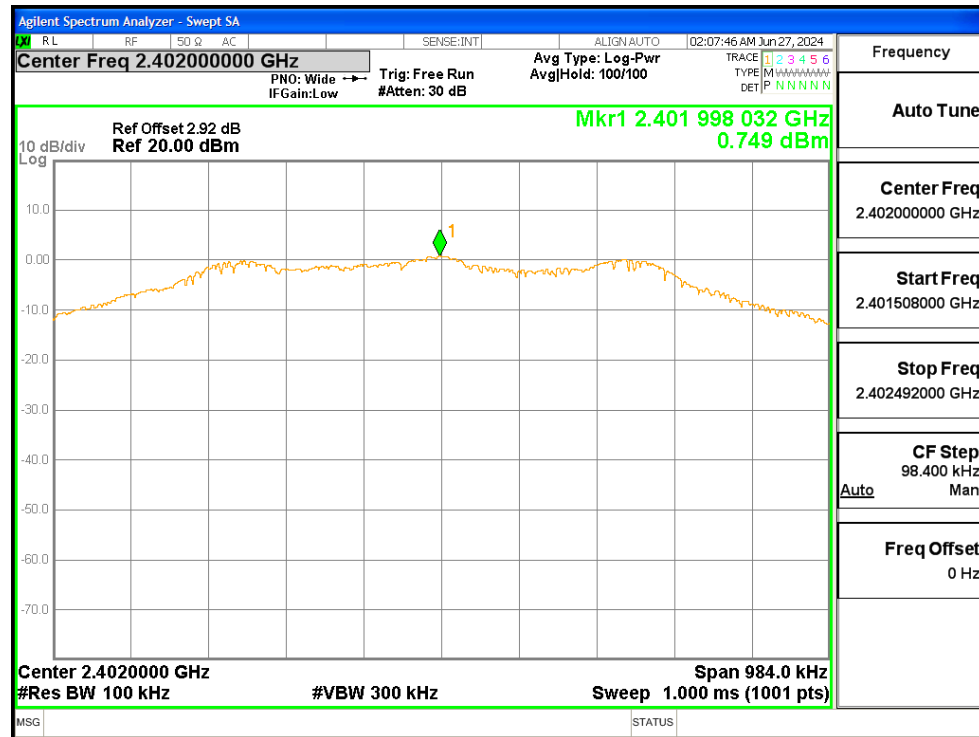
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## Maximum Power Spectral Density Level

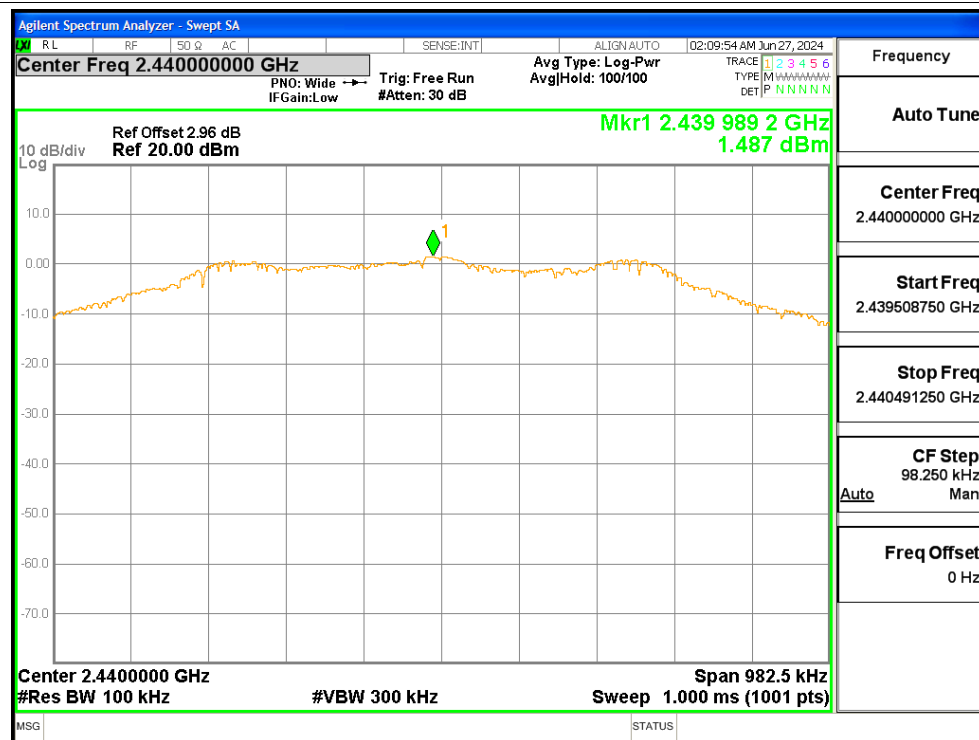
| Condition | Mode      | Frequency<br>(MHz) | Antenna | Conducted PSD<br>(dBm/3kHz) | Duty<br>Factor<br>(dB) | Total PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|-----------|--------------------|---------|-----------------------------|------------------------|-------------------------|---------------------|---------|
| NVNT      | BLE<br>1M | 2402               | Ant1    | 0.75                        | 0                      | 0.75                    | 8                   | Pass    |
|           |           | 2440               |         | 1.49                        | 0                      | 1.49                    | 8                   | Pass    |
|           |           | 2480               |         | 2.08                        | 0                      | 2.08                    | 8                   | Pass    |
|           | BLE<br>2M | 2402               |         | 0.56                        | 0                      | 0.56                    | 8                   | Pass    |
|           |           | 2440               |         | 1.39                        | 0                      | 1.39                    | 8                   | Pass    |
|           |           | 2480               |         | 1.92                        | 0                      | 1.92                    | 8                   | Pass    |
|           |           |                    |         |                             |                        |                         |                     |         |

## Test Graphs

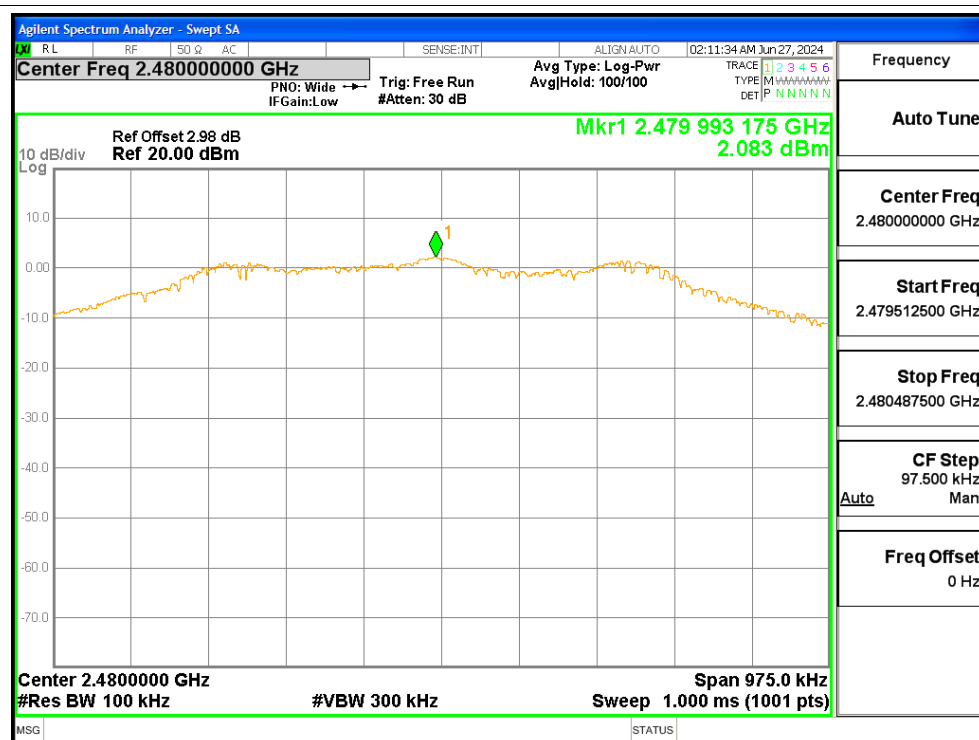
PSD NVNT BLE 1M 2402MHz Ant1



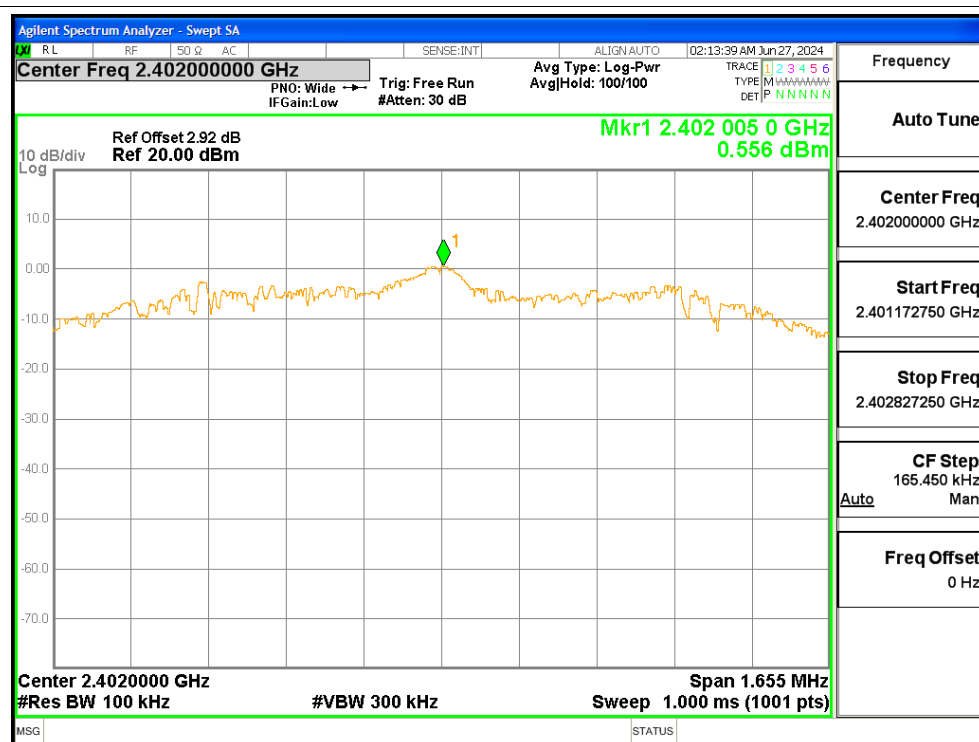
PSD NVNT BLE 1M 2440MHz Ant1



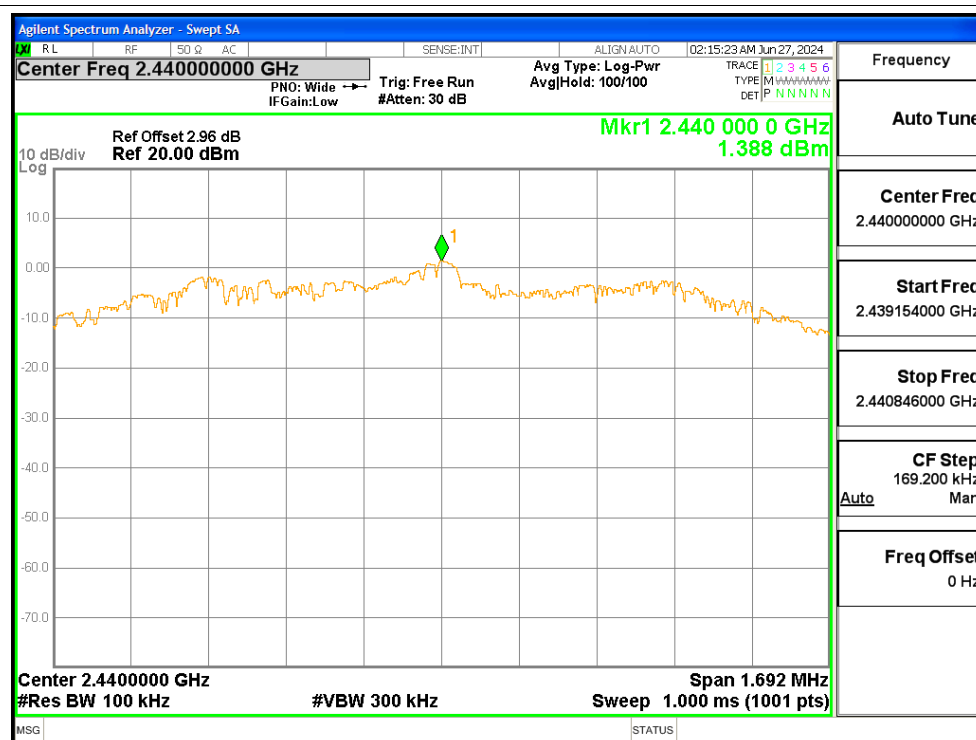
## PSD NVNT BLE 1M 2480MHz Ant1



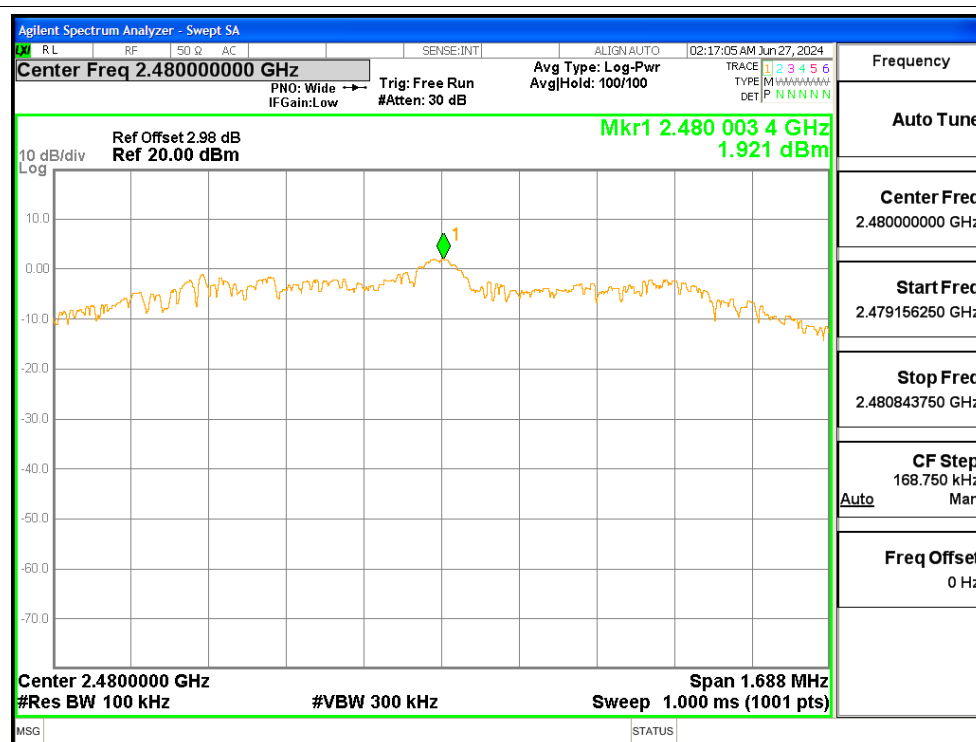
## PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



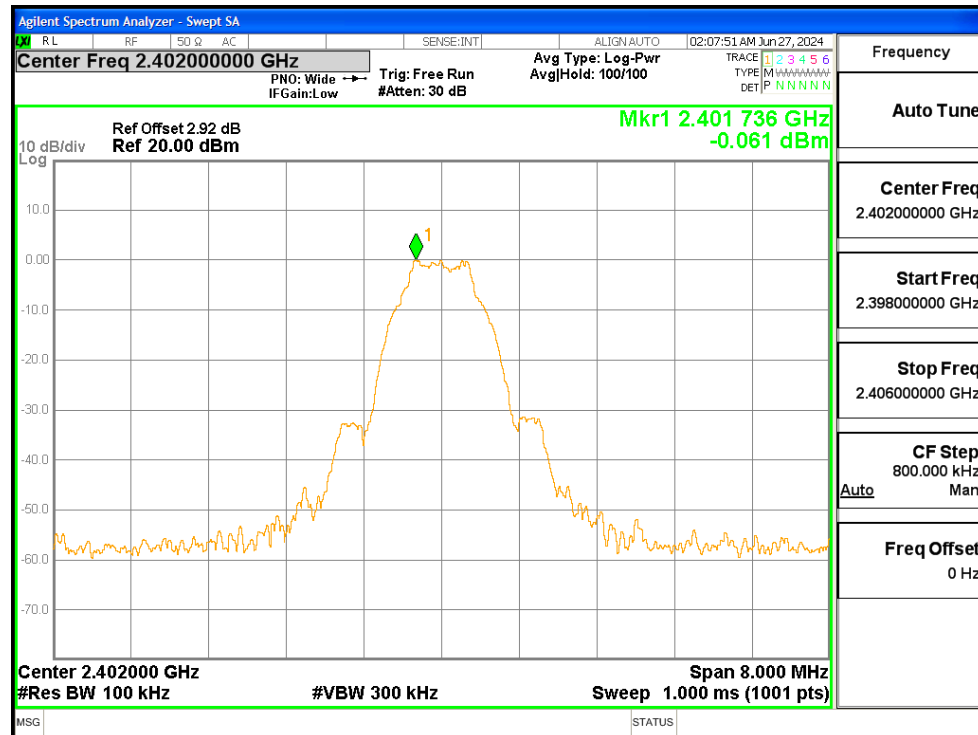
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# Band Edge

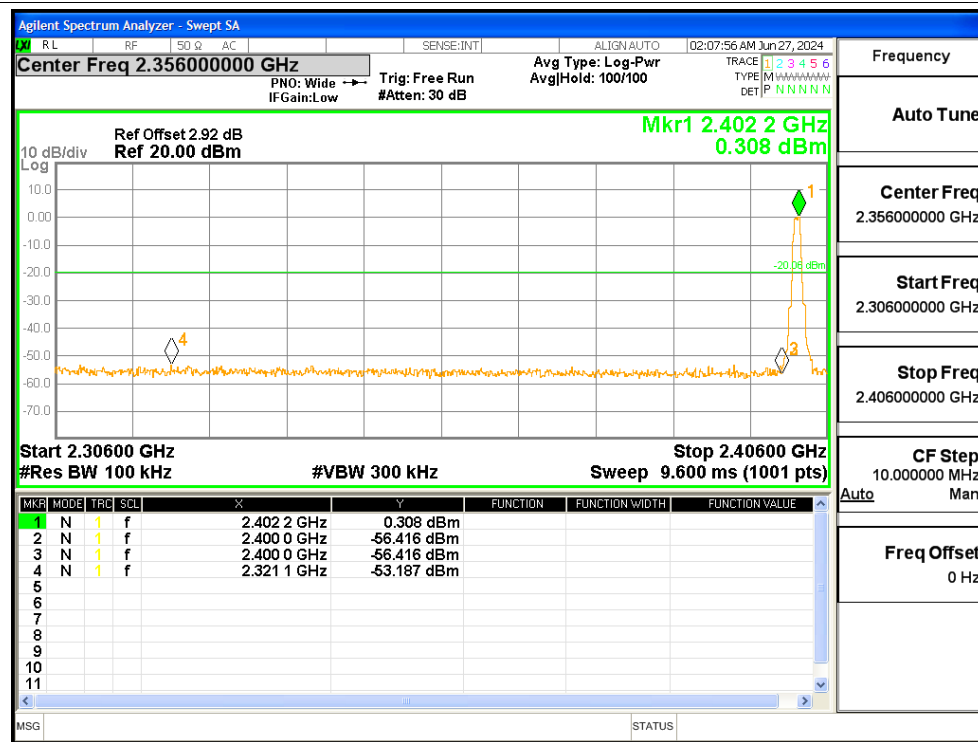
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -53.12          | -20         | Pass    |
|           |        | 2480            |         | -55.67          | -20         | Pass    |
|           | BLE 2M | 2402            |         | -44.45          | -20         | Pass    |
|           |        | 2480            |         | -54.38          | -20         | Pass    |

## Test Graphs

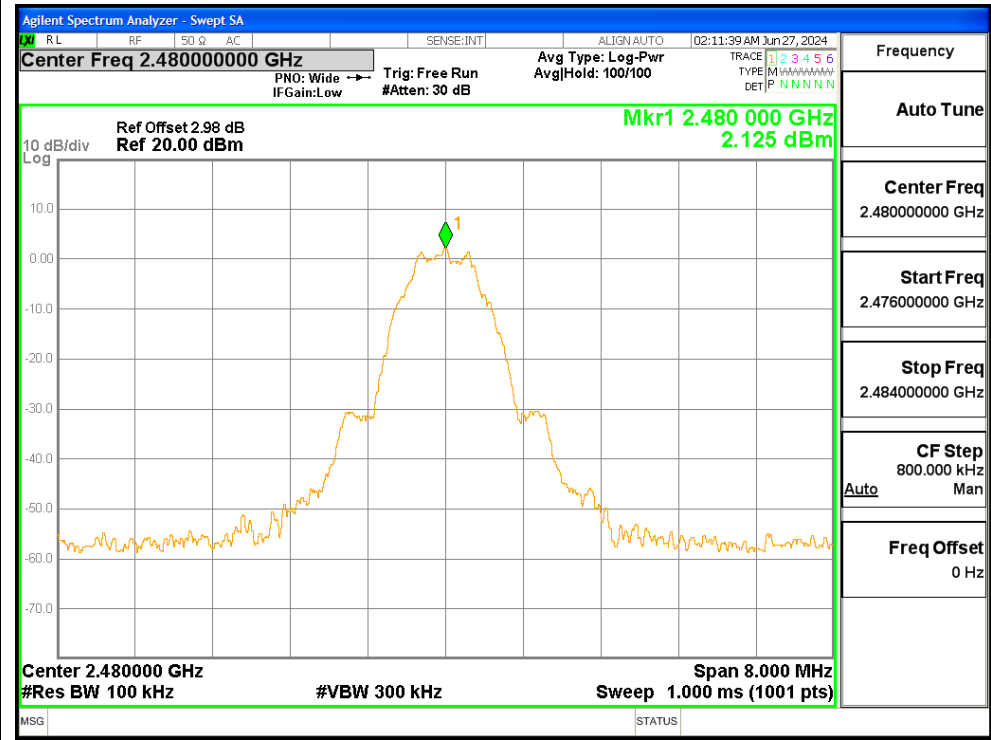
## Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



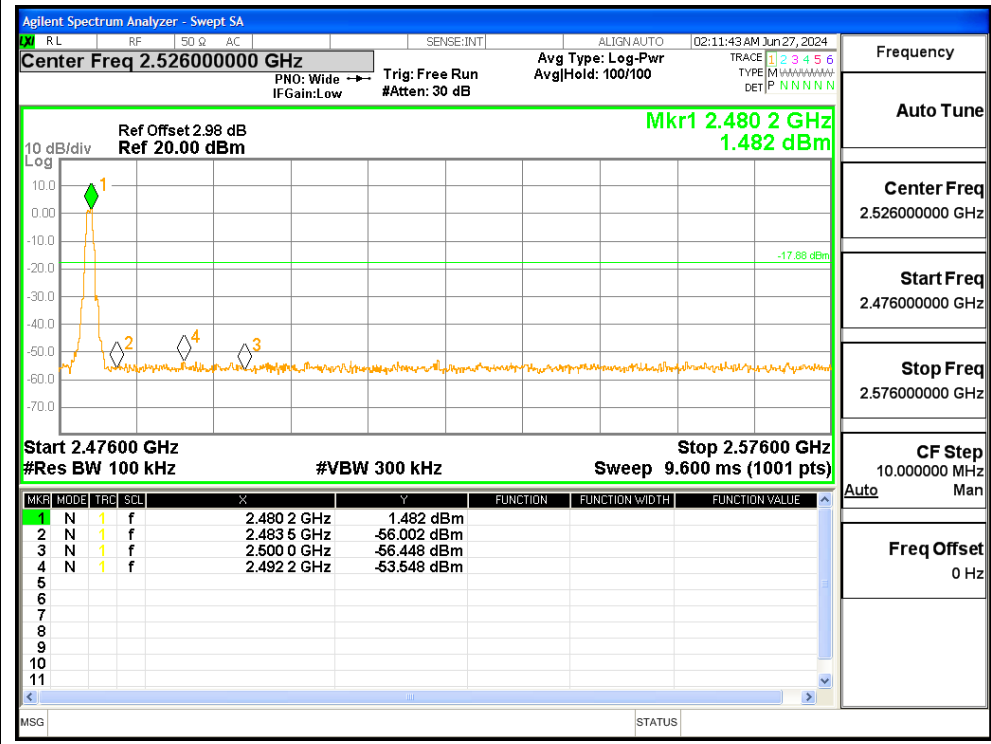
## Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



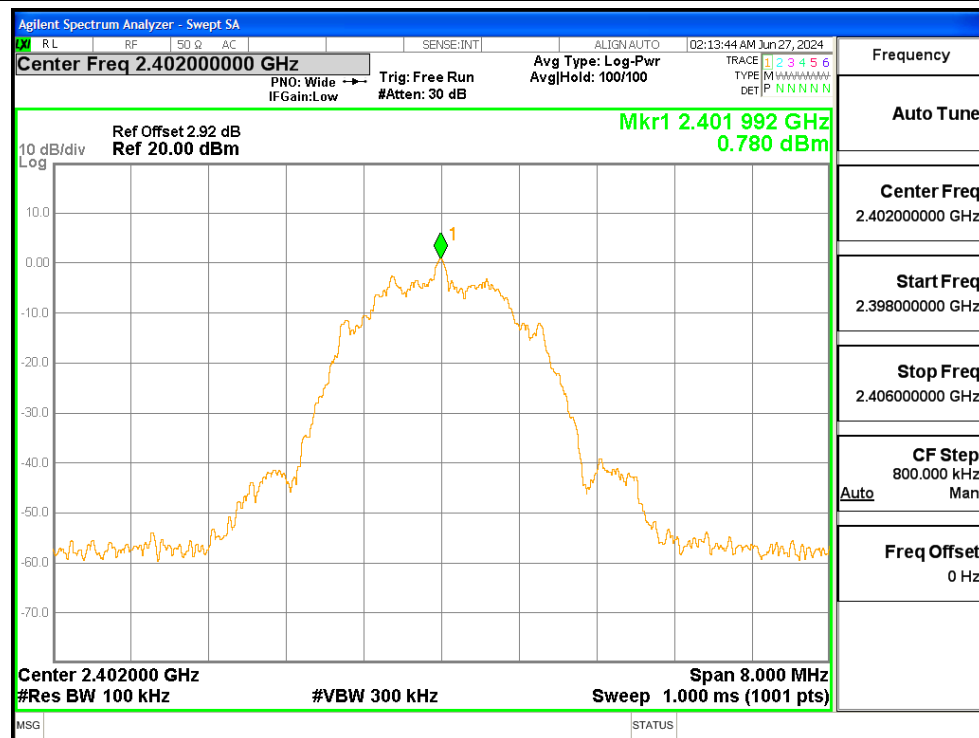
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



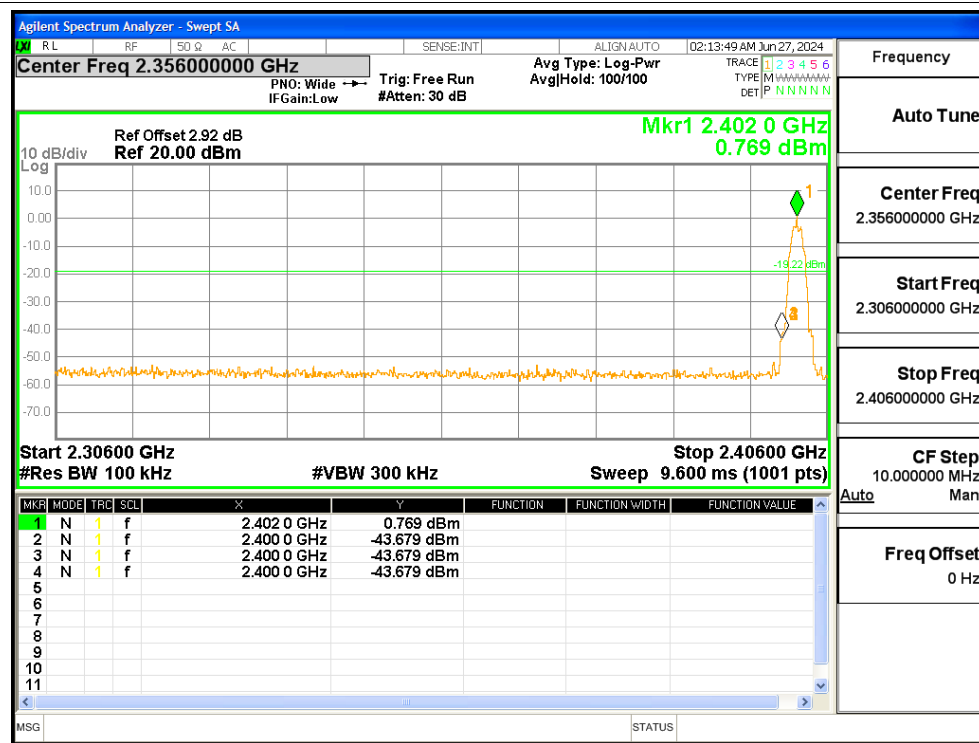
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



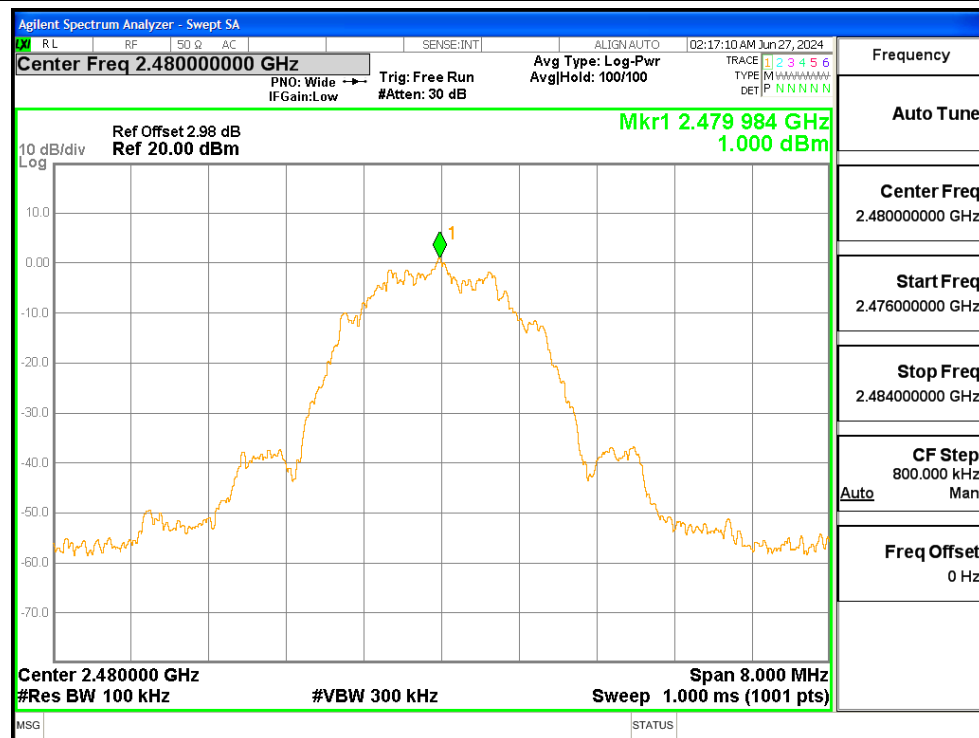
## Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



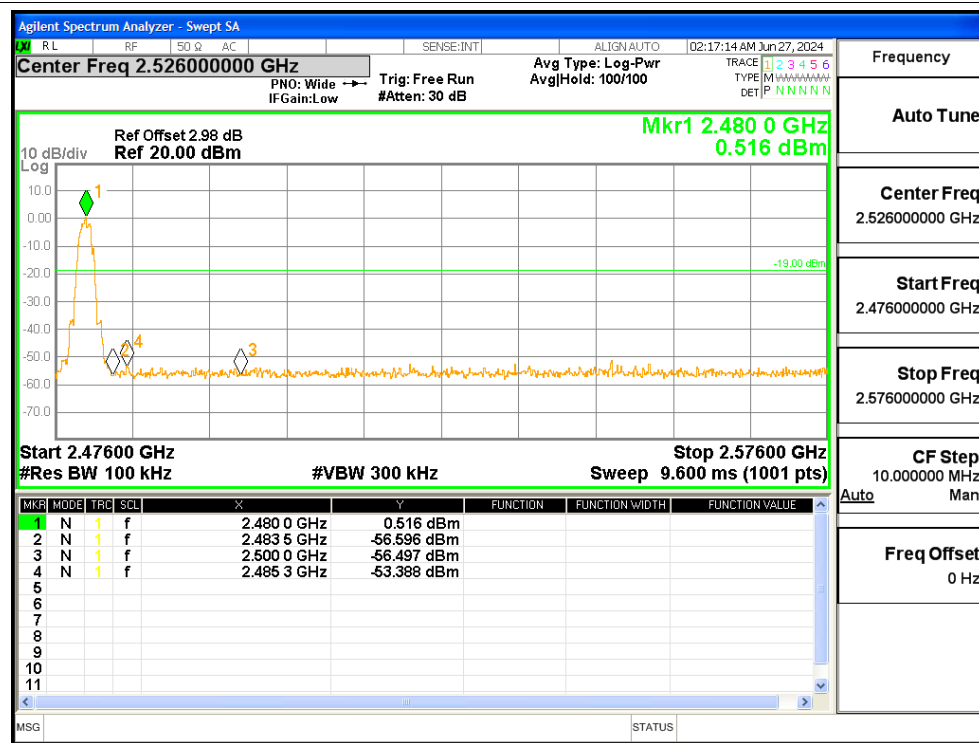
## Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



## Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



## Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



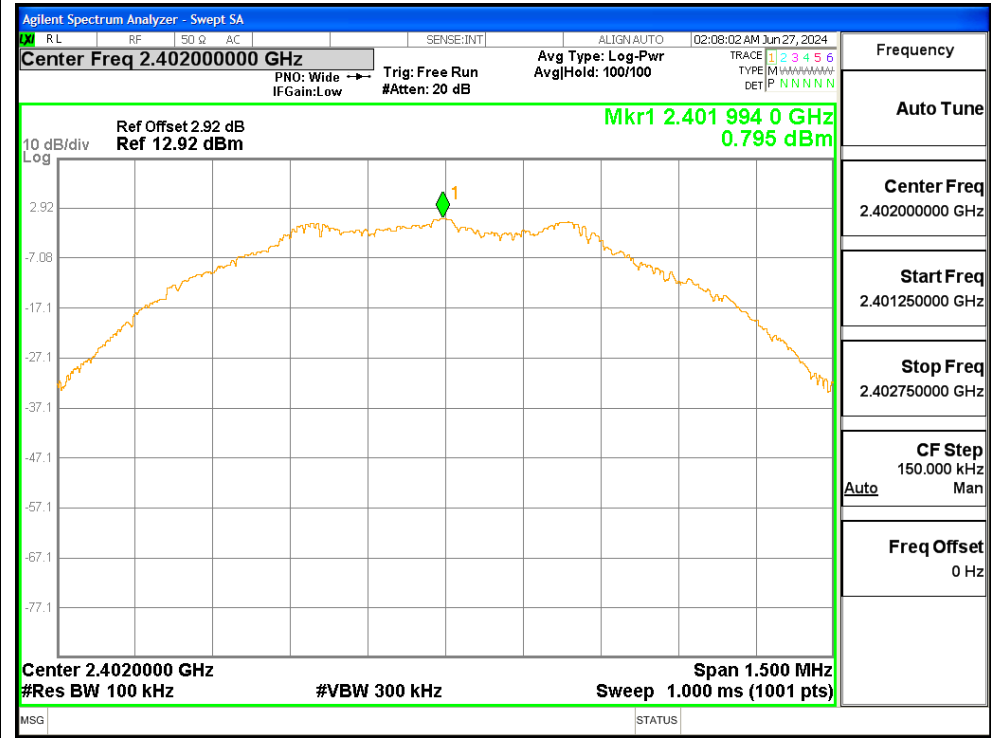
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## Conducted RF Spurious Emission

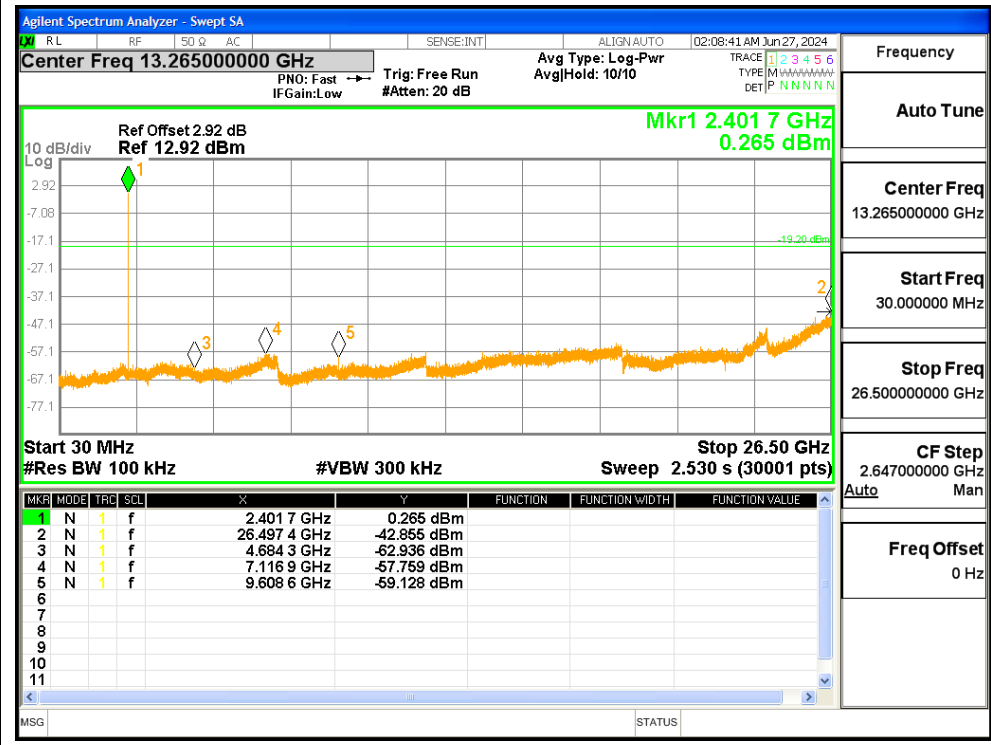
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -43.65          | -20         | Pass    |
|           |        | 2440            |         | -45.21          | -20         | Pass    |
|           |        | 2480            |         | -44.94          | -20         | Pass    |
|           | BLE 2M | 2402            |         | -41.36          | -20         | Pass    |
|           |        | 2440            |         | -43.28          | -20         | Pass    |
|           |        | 2480            |         | -44.77          | -20         | Pass    |

Test Graphs

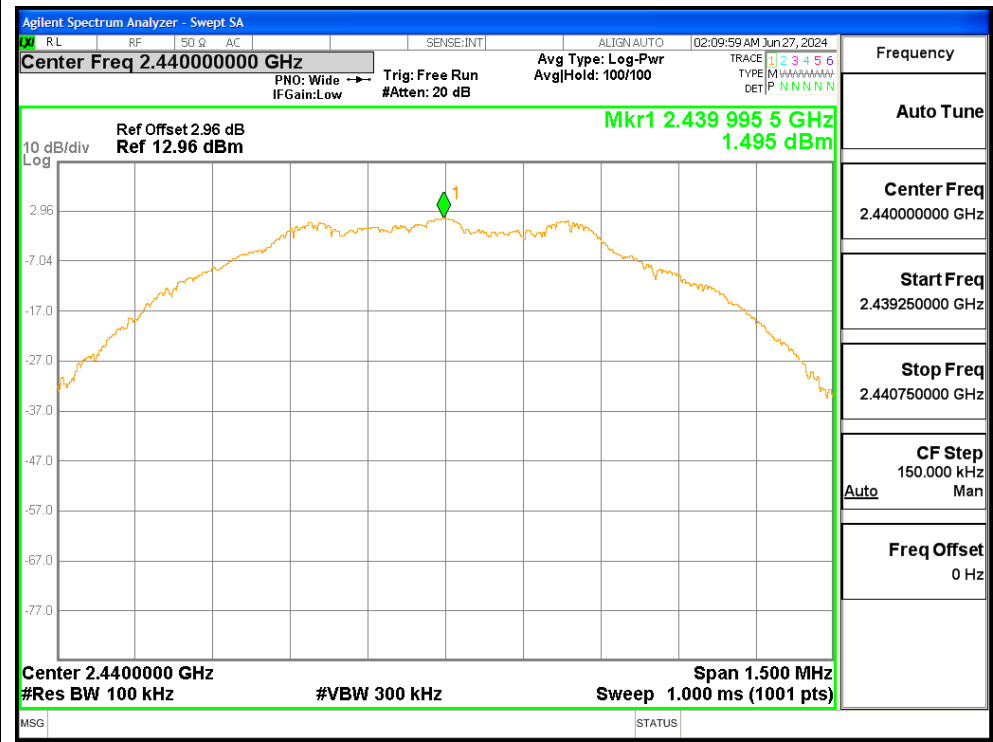
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



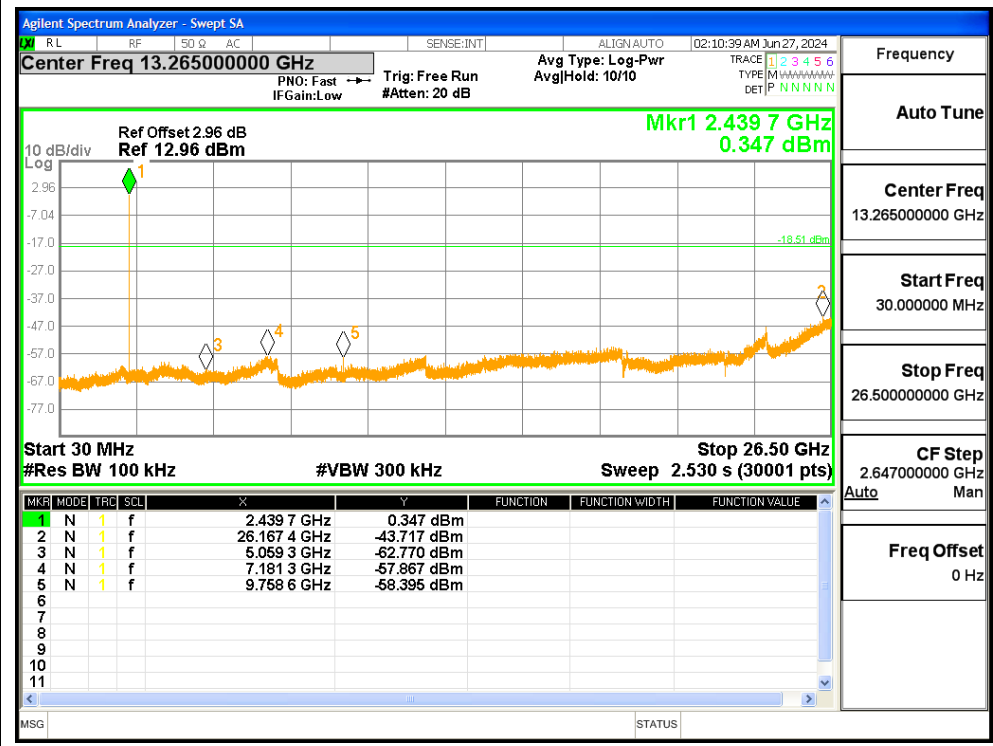
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



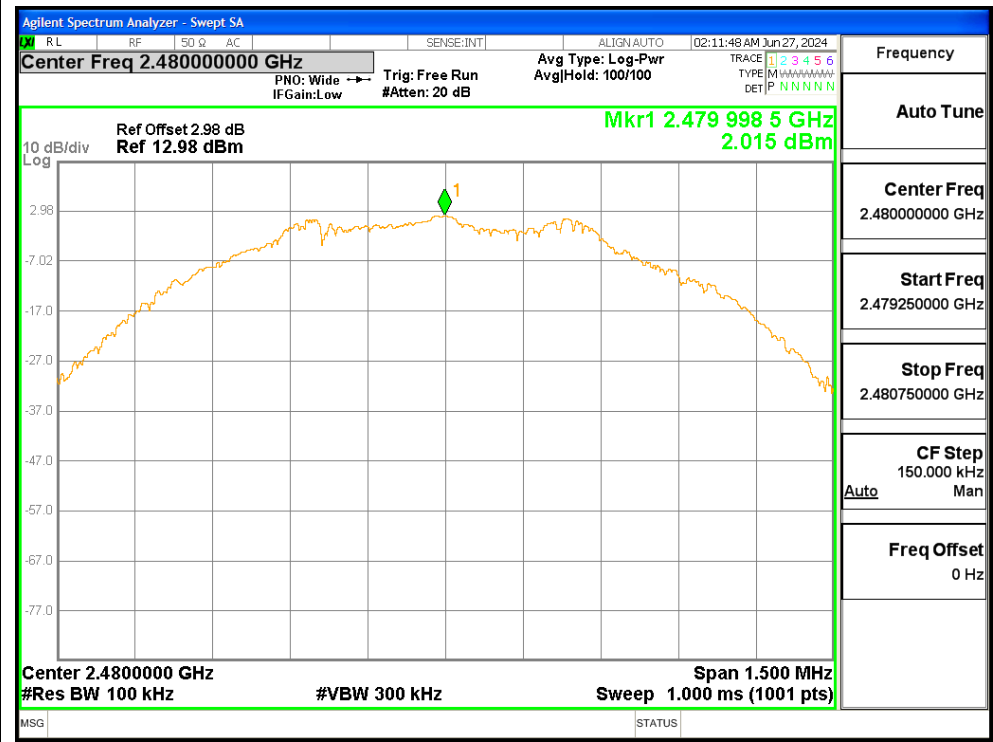
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



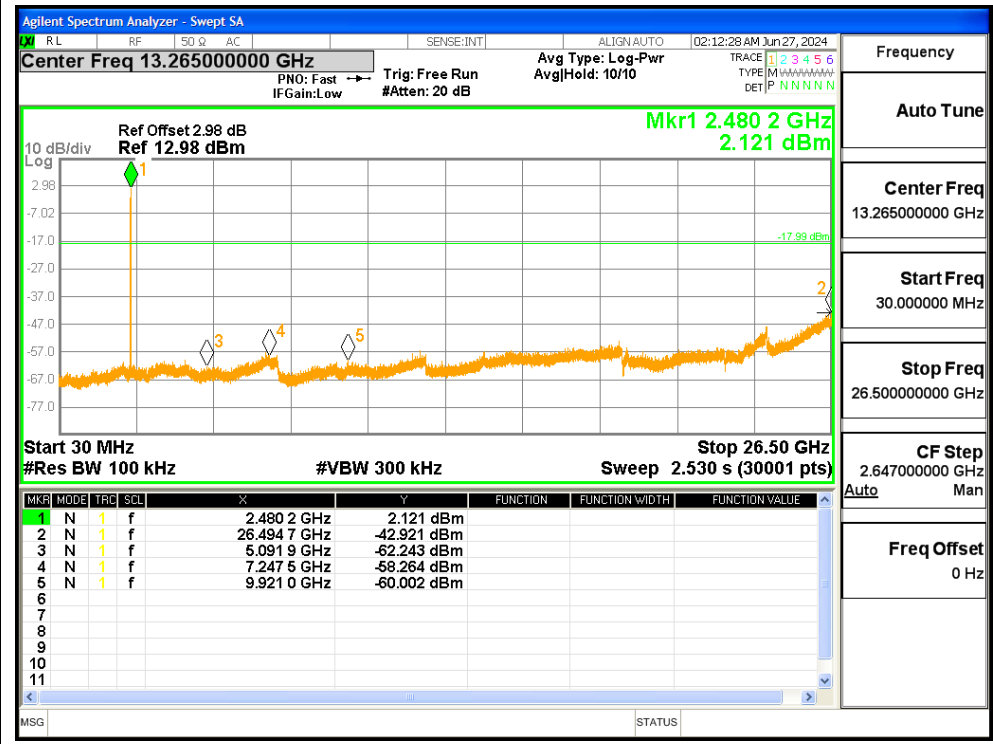
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



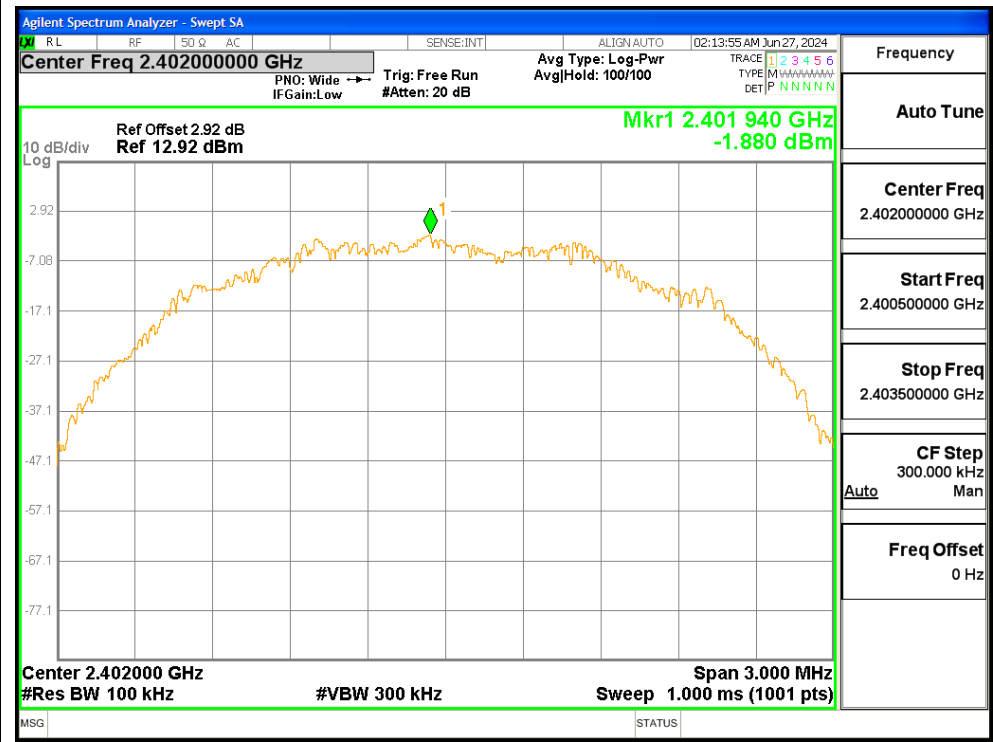
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



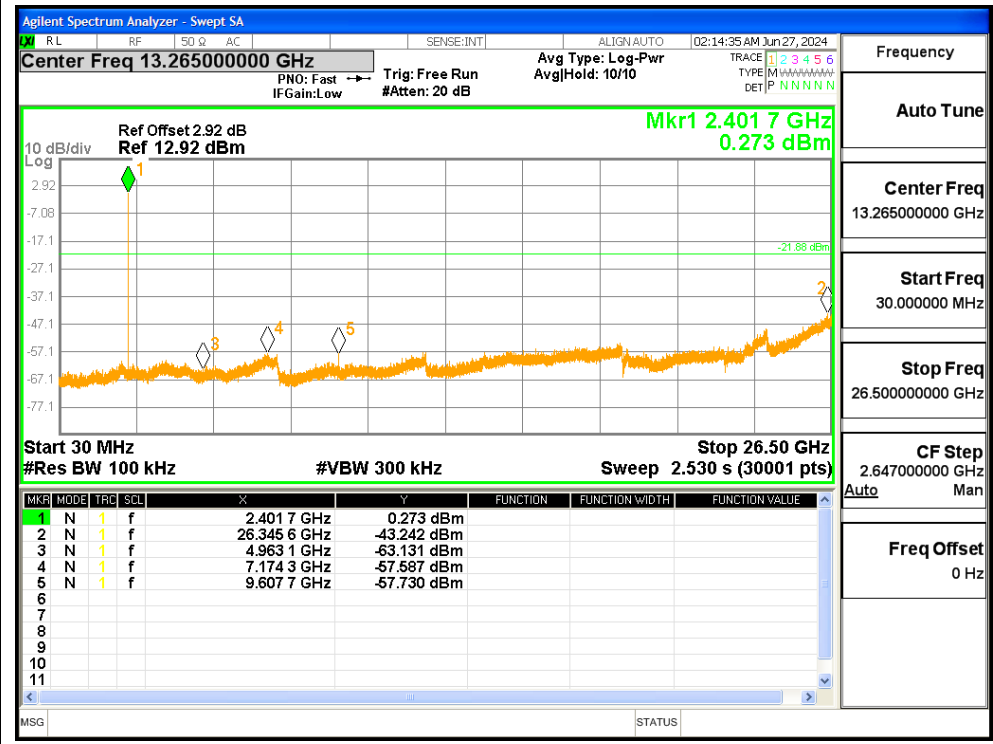
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



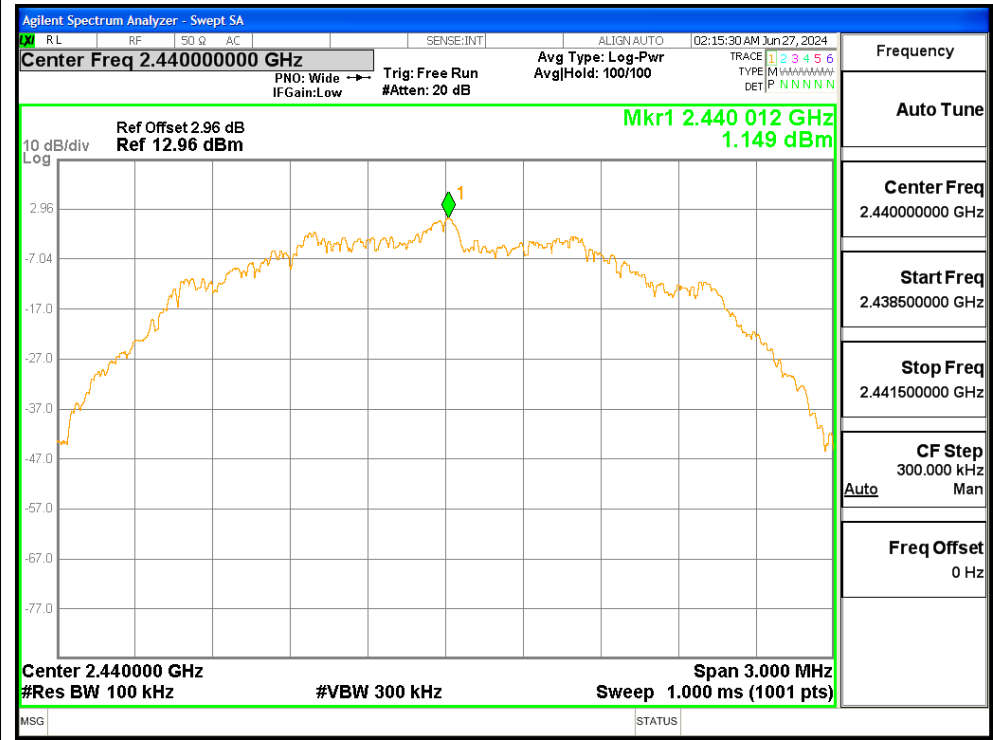
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



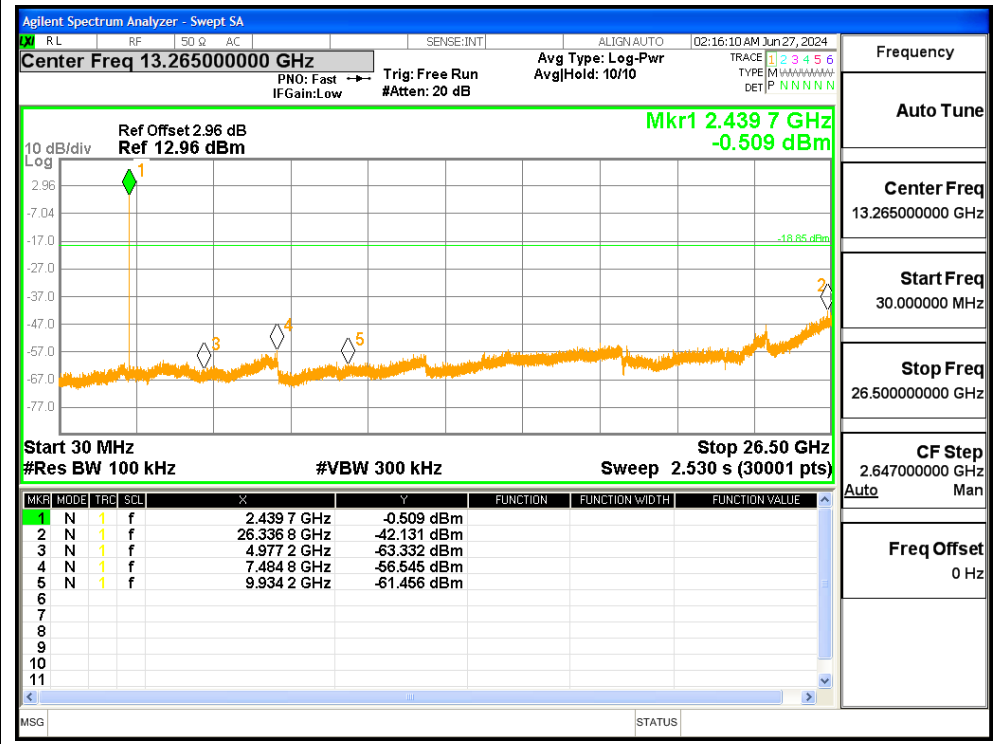
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



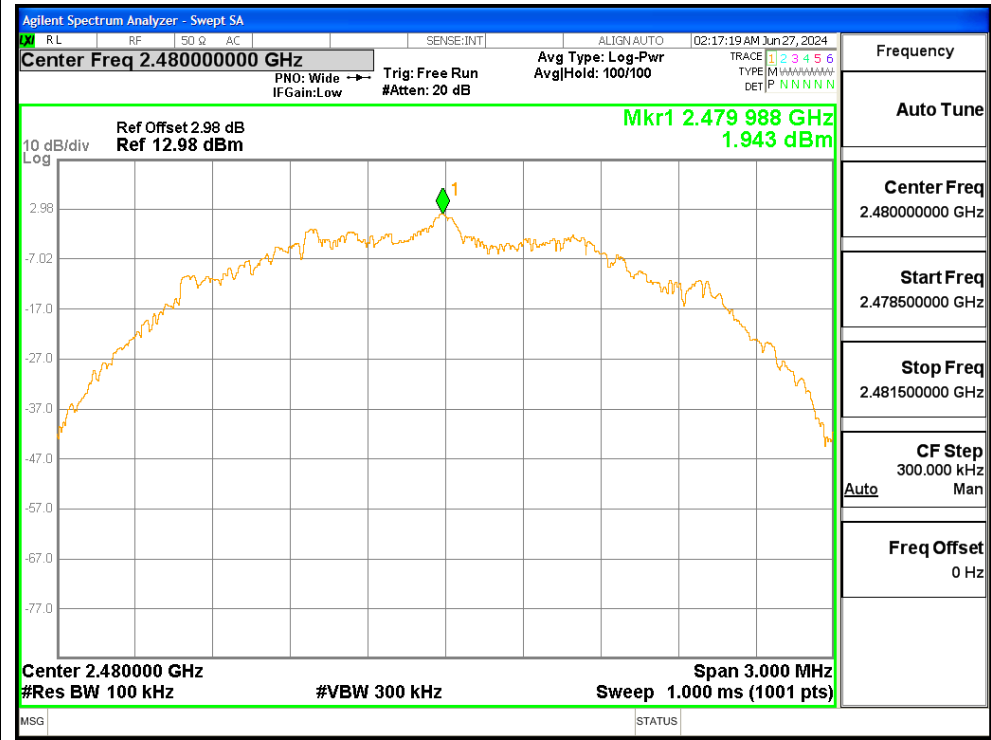
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

